

## ABSTRACT OF THE DISCLOSURE

An integrated fiber optic assembly includes some of the active components that are otherwise found in a typical transceiver. For example, a transmitter optical assembly includes a laser source, a laser driver, and a component for administering diagnostic data. A receiver optical assembly includes a photo-diode an optical converter, such as a transimpedance amplifier, and a processing control that can administer, for example diagnostic data associated with the receiver optical assembly. A combination optical assembly includes a photo-diode and a laser source, as well as many of the active components for driving, operating, or administering the laser source. In part since the active components can be placed in close proximity to each other, electrical impedance is reduced that would otherwise be present in a typical transceiver and optical subassembly.

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